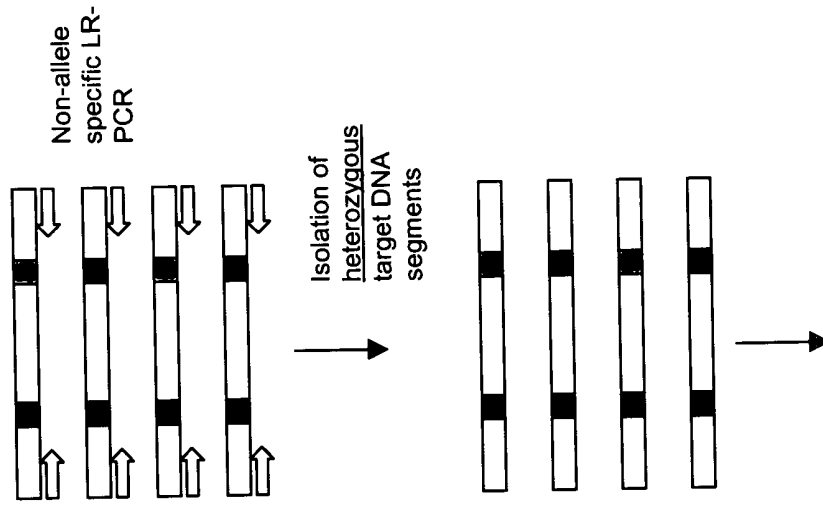
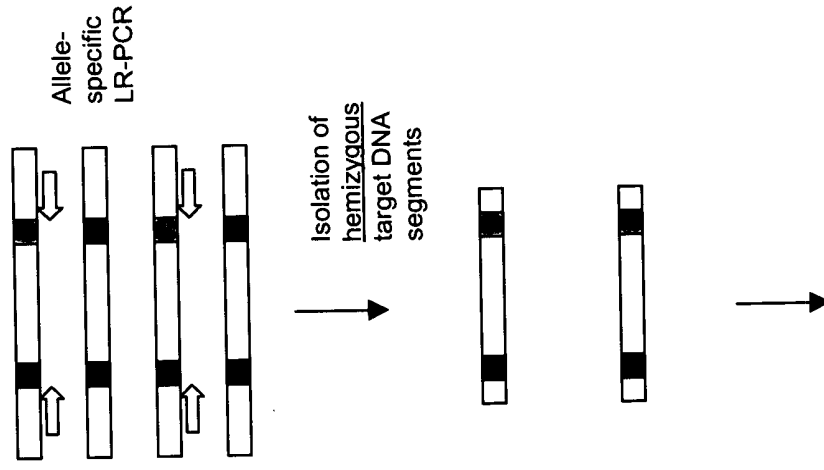


McDonald-Evans



Subsequent analysis via circularization, then haplotype detection of BOTH alleles

Michalatos-Beloin

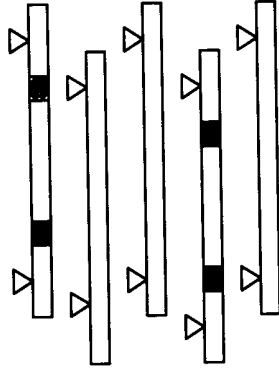


Immediate haplotype detection, but of only ONE allele.

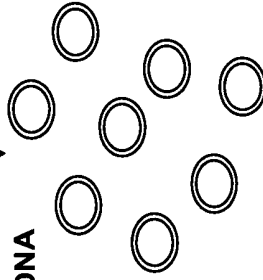
Long-range PCR amplification of heterozygous genomic DNA

Patel

Restriction of
digestion of
genomic
DNA; no
isolation of
target
sequence



Circularization
of the entire
digested
genomic DNA

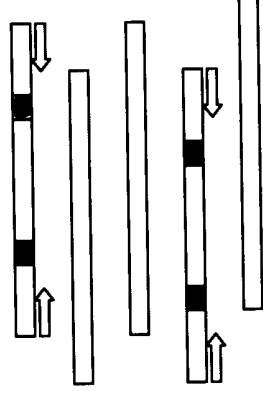


= *entire genome*
(*target gene may*
be digested and
thus not intact)

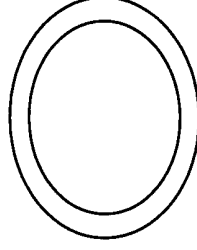
Isolation of hemizygous target
sequence from circularized total
genomic DNA by allele-specific
PCR amplification; haplotype
identification.

McDonald-Evans

Isolation of
target
sequence from
genomic DNA
by LR-PCR
amplification



Circularization of
target sequence
only



= *target*
sequence only

Haplotype analysis of only
circularized target sequence. A
variety of molecular methods
including, but not limited to,
allele-specific PCR can be used
for haplotype identification.